CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2015 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2017

JAS-ANZ BSCIC ISO 9001 REGISTERED

No. : CTCE/BBMP/PMC/DD/2020/31

CIVIL ENGINEERING TESTING LABORATORY www.civiltechconsultants.com

Date:15.04.2020

To,
Executive Engineer,
Dasarahalli Division, Dasarahalli Zone,
Bruhat Bangalore MahanagaraPalike
Bangalore.

CERTIFICATE

Reference : EE/DD/LOA/592/2019-20 Date: 06.03.2020

Name of work: Improvement to roads and drains at Karekallu and Vinayaka Nagara in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.

This is to certified that the 1st and Final bill of the above said work has been executed satisfactorily and the quantities of work done has also been certified.

Thanking you,

Civil-Tech Consultants & Engineers Bangalore

With Regards,

For Civil-Tech Consultants and Engineers

15/4/2020
Authorized Signature

AEE-14
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿ.ಬಿ.ಎಂ.ಪಿ
ಬೆಂಗಳೂರು-560073.

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Date:15.04.2020

To,

Executive Engineer

Dasarahalli Division, Dasarahalli Zone

Bruhat Bangalore Mahanagara Palike

Bangalore.

COMPLIANCE REPORT

Dear Sir,

Reference : EE/DD/LOA/592/2019-20 Date: 06.03.2020

Name of work: Improvement to roads and drains at Karekallu and Vinayaka Nagara in Ward No.14, Dasarahalli Sub Division, BBMP, Bangalore.

With respect to the above subject & name of the work, we have supervised the work and the quantity and quality of below mentioned items of the work was found to be completed satisfactorily for the **1st and Final bill.**

Sl. No	Description of Work	Unit	Qty
1	Removing and stocking of BS slab, All lead and lift complete as per specification and as per the direction of the engineer in charge of the site.	Sqm	574.2
2	KSRRB M300-14: Excavation for Roads work in all type of soil by Mechanical means including cuttingandloading to tippers, trimming bottom and side slopers in accordance with requirements of lines, grades and cross sections and transportation with lead of 1.00 Km and complete as per specifications. Morth specification No.301. all lead and lift complete as per specification and as per the direction of the engineer in charge of the site.	Cum	1256.41
3	KSRRB M300-14:Earthwork Excavation by manual means for roads, drains & similar works in ordinary soil excavatedsurface levelled and sides neatly dressed the disposedearth to be levelled neatly after breaking of clods complete as per	Cum	12.76
4	KSRB 4-1.7:Providing and laying in Position plain cement Concrete mix 1:3:6 with OPC cement @ 220kgs, with 20mm and downsize graded granite metal corse aggregates @ 0.69 cum and fine aggragates @ 0.56 cum machine mixed, concrete laid in layers noy exceeding 15cms, thick well compacted, in and foundation and plinth and sills including cost of materials labours HOM Curing complete as per specification No.KBS 4.1, 4.2 all lead and lift complete as per specification and as per the direction of the engineer in charge of the site.	Cum	100.42
5	Providing and laying design mix M25 with OPC cement @ 340 kgs, with 20mm and downsize graded granite metal corse aggregates @ 0.70 cum and fine aggragates @ 0.47,with Super plastisiser @ 3 its Conforming to ISI (9103-1999 Reaffirmed-2008) upto 5 M height.all lead and lift complete as per specification and as per the direction of the engineer in charge of the site.	Cum	211.91

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Sl. No	Description of Work	Unit	Qty
6	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting bending, hooking, placing in position, lapping and welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps,hooks and wastage shall not be measured and paid) cost of materials, labour, HOM completete as per specification,. MORTH specification No.1600 & 2200 - do-TMT bars Fe500 All lead and lift complete as per specification and as per the direction of the engineer in charge of the site.	Tonnes	13.25
7	KSRRB M2200-1Providing weep holes in brick masonary/plain Reinforced cement abutment, wing wall/return wall with 100mm dia AC Pipe, extending through the full width of the structure with slope of IV:20H toward drawing force. Complete as per drawing and Technical Sprcifications including cost of materials, labour, HOM complete as per Sprcification No.2706 & 2200 All lead and lift complete as per specification and as per the direction of the engineer in charge of the site.	Rmt	54.75
10	Providing and fixing pre cost RCC covering slabs of 100mm thick for drain in cement mortor 1:1. 5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortar including form work, lift charges, curing and concrete finished surface on both sides etc., and completed as per specification All lead and lift complete as per specification and as per the direction of the engineer in charge of the site.	Sqm	574.2
11	Providing and fixing pre cost RCC covering slabs of 250mm thick for culverts mad erof plain Reinforced cement concre design mi M25 with OPC @ 340kgs, with 20mm downsize graded granite metal courseaggte @ 0.70 cum Nand fime aggreates @ 0.47 cum with super plastercizer @ 3 its confroming to 189103-1999 Reaffirmed - 2008 open foundation complete as per drawing and technical specification including cost all material, an labour, HOM curing, formworks, scaffolding, and centering complete as per specification and pointing for joints 1:3 cement mortor including form work, lift charges, curing etc.All lead and lift complete as per specification and as per the direction of the engineer in charge of the site.	Sqm	18.64
12	Compaction of original ground by mechanical means including filling in depressionoccuring during rolling including cost of all labour, HOM complete as per specifications.All lead and lift complete as per specification.All lead and lift complete as per specification and as per the direction of the engineer in charge of the site.	Sqm	2474.07

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Sl. No	Description of Work	Unit	Qty
13	Cement Concrete Pavements KSRRB M600-1.Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mmand downsizegraded granite metal coarse aggregates @ 0.58 cum over a prepared sub basecoarse and fine agtes conforming to IS 383-2016 aggragate cement ratio not exceeding to15:1 aggragate gradation after blending to be as per table 600-1 optimum moisture content to be determined during trial length construction concrete lenth not to be less than 10Mpaat 7 days mixed in hatching plant transported to site laid with paver compacting with 8-10 tonne vibratery roller finishing and curing complete as per Specification clause 601 of Morth V Revision and IS 456 Tables do with opo at 150kg/cum coarse aggregate 0.86 cumfine aggragates 0.58 cum Concrete mix batch plant 75cum/hr capacity with fixed from paver..All lead and lift complete as per specification and as per the direction of the engineer in charge of the site.	Cum	247.41
14	Providing, laying, spreading and compacting crushed stone aggregates of granite/trap/basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed material by tipper to site, laying in uniform layers with paver in sub-base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density compllete as per specifications .All lead and lift complete as per specification and as per the direction of the engineer in charge of the site.	Cum	247.41
15	Cement concrete pavement. Construction of un- reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregates, with superplastisiser @3lts confirming to IS9103-1999 reaffirmed -2008, mixed in a concrete mixer of not less then 0.6cum capacity and appropriate weigh batsher as per approved mix design, laid in approved fixed side from work(steel channel. laying and fixing of 125micron thick polythene film, wedges, steel plates inculding levelling the form workas per drawing). spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation inculding provision of contraction expansion, construction and longitudinal joints, joint filter, separation membrane, selant primer joint selant, admixtures as approved. curing compound .finishing to lines and grades as per drawing complete as perspecfications. M30(at 360kg per cum coarse aggregate@ 0.69cum and fine aggregate@0.46cum) (P.W.P & IWTD SR 2018-19, Pg No.176 Item No.22.6.1)compllete as per specifications .All lead and lift complete as per specification and as per the direction of the engineer in charge of the site.	Cum	395.85
16	Providing and fixing pre cast solid cement concrete kerb stones made out of M20 with top and bottom width 100 and 150 mm respectively, 275mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete. to be laid between travel lane and cycle track /Landscape with All lead and lift complete as per specification and as per the direction of the engineer in charge of the site.	Nos	1417

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Sl. No	Description of Work	Unit	Qty
17	KSRRB M-800.1.Painting two coats after filling the surface with synthatic enamel paint in approved shades on new plastered concrete surfaces, with material, labour labour complete as per specifications complete All lead and lift complete as per specification and as per the direction of the engineer in charge of the site.	Sqm	446.6
18	KSRRB M300-19.Removal of unserviceble soil including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5 complete as per specifications All lead and lift complete as per specification and as per the direction of the engineer in charge of the site.	Cum	1269.17
19	KSRRB M100-4.1.cost of excluding loading and unloading MORTH -100/Chapter-1 surface road All lead and lift complete as per specification and as per the direction of the engineer in charge of the site.	Cum	1269.17
20	Filling of foundation with granite/trap broken metal 100mm down size, with approved sand including hand packing, ramming, watering including cost of all materials and labour with lead upto 50m and lift 1.5m complete as per specifications All lead and lift complete as per specification and as per the direction of the engineer in charge of the site.	Cum	1.984
21	Supplying, laying and jointing HDPE pipes of specified grade and confirming to IS 4984-995 with latest amendments and conveying to work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15cms, with soft gravel or selected earth available from the excavation, testing and commissioning.The rate is exclusive of required specials and fittings whereever necessary like saddle tee, stub ends, flanged sets, bends, reducers ets. complete (contractor will make his own arrangements for procuring water for testing) etc. for HDPE grade PE80-PN6.0, 630mm dia. (perfortated pipe for rain water harvesting pit) All lead and lift complete as per specification and as per the direction of the engineer in charge of the site.	Rmt	7.2
22	Providing geonets for rain water harvesting pit on top of the filter media as specified in drawings or as approved by engineer incharge All lead and lift complete as per specification and as per the direction of the engineer in charge of the site.	Sqm	1.24

For Civil-Tech Consultants and Engineers

15/4/2020

Authorized Signature

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